

AMENDMENTS TO THE CLAIMS

Claims 1-187 (cancelled).

188. (New) An integrated tool for deploying at least one anastomosis device that connects a graft vessel to a target vessel, the tool comprising:

- a. first member configured to create an opening in the target vessel; and
- a. second member configured to advance at least one anastomosis device at least partially into the opening; wherein at least one said member is movable relative to the other.

189. (New) The integrated tool of claim 188, wherein said first member and said second member are substantially concentric.

190. (New) The integrated tool of claim 188, wherein at least one said member is slidable relative to the other said member.

191. (New) The integrated tool of claim 188, wherein said first member is a trocar.

192. (New) The integrated tool of claim 188, wherein at least a portion of said second member is tubular.

193. (New) The integrated tool of claim 188, further comprising a handle operatively connected to at least one of said first member and said second member.

194. (New) The integrated tool of claim 193, wherein said handle is configured to pivot about an axis.

195. (New) The integrated tool of claim 193, wherein said handle includes at least one cam slot defined therein, and wherein at least one of said first member and said second member includes at least one cam follower configured to engage at least one said cam slot.

196. (New) The integrated tool of claim 193, wherein motion of said handle causes said first member to create an opening in the target vessel and said second member to advance the anastomosis device at least partially into the opening.

197. (New) The integrated tool of claim 193, wherein said handle is configured to control the motion of at least one of said first member and said second member.

198. (New) The integrated tool of claim 188, further comprising an expander slidable relative to said second member.

199. (New) The integrated tool of claim 198, wherein said second member includes a lumen therein, and wherein said expander is slidable through at least a portion of said lumen.

200. (New) The integrated tool of claim 188, wherein the distal end of said first member is configured to move, and wherein said motion of said distal end creates the opening in the target vessel.

201. (New) A method for connecting a graft vessel to a target vessel having a lumen therethrough and a wall about said lumen, comprising:

providing an integrated tool and an anastomosis device connected to said integrated tool;

creating an opening in the wall of the target vessel with said integrated tool; and

advancing said anastomosis device at least partially into the opening with said integrated tool.

202. (New) The method of claim 201, further comprising deploying said anastomosis device after said advancing.

203. (New) The method of claim 202, wherein said deploying comprises radially expanding at least a portion of said anastomosis device.

204. (New) The method of claim 202, wherein said deploying comprising forming at least one flange on said anastomosis device.

205. (New) The method of claim 202, wherein said deploying comprises
forming a flange on said anastomosis device within the lumen of the target vessel; and
retracting said anastomosis device such that said flange engages the inner surface of
the target vessel wall.

206. (New) The method of claim 202, wherein said deploying comprises
forming a flange on said anastomosis device; and
seating said flange against the wall of the target vessel after said forming.

207. (New) The method of claim 201, wherein said creating includes advancing a substantially conelike element into the wall of the target vessel.

208. (New) The method of claim 201, wherein said advancing is at least partially along a line coaxial with the centerline of the opening.

209. (New) The method of claim 201, wherein the opening is substantially circular.

210. (New) The method of claim 201, further comprising substantially maintaining hemostasis at the opening after said creating.

211. (New) The method of claim 201, further comprising disconnecting said anastomosis device from said integrated tool.

212. (New) An anastomosis device, comprising:

a body; and

at least one outer flange element extending from said body, wherein at least one said outer flange element includes an opening defined therethrough.

213. (New) The anastomosis device of claim 212, wherein at least one said outer flange element is located at the proximal end of said body.

214. (New) The anastomosis device of claim 212, wherein a plurality of said outer flange elements are spaced substantially evenly around a circumference of said body.

215. (New) The anastomosis device of claim 212, wherein said body is substantially tubular.

216. (New) The anastomosis device of claim 212, further comprising at least one inner flange element extending from said body.

217. (New) The anastomosis device of claim 216, wherein at least one said inner flange element is located at the distal end of said body.

218. (New) The anastomosis device of claim 216, wherein at least one said inner flange element is substantially radially offset from a corresponding outer flange element.

219. (New) The anastomosis device of claim 216, wherein a plurality of said inner flange elements and a plurality of said outer flange elements extend from said body, and wherein said inner flange elements are substantially radially offset from said outer flange elements.

220. (New) The anastomosis device of claim 212, wherein said body and said at least one outer flange are composed at least partly of stainless steel.

221. (New) The anastomosis device of claim 212, wherein said body and said at least one outer flange are composed at least partly of nickel-titanium alloy.